



## INDIANA ENVIRONMENTAL STEWARDSHIP PROGRAM ANNUAL PERFORMANCE REPORT

State Form 53475 (11-07)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
ENVIRONMENTAL STEWARDSHIP PROGRAM

Indiana Department of Environmental Management  
Office of Pollution Prevention and Technical Assistance  
100 North Senate Avenue IGCS W041  
Indianapolis, IN 46204-2251  
Telephone: (800) 988-7901  
FAX: (317) 233-5627  
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### When to use this annual report form...

**STOP!** Is your facility a member of the U.S. Environmental Protection Agency's National Environmental Performance Track and Indiana Environmental Stewardship Program? If so, please use the U.S. EPA National Environmental Performance Track Annual Performance Report form available at <http://www.epa.gov/performance/track/program/report.htm>. The U.S. EPA will notify IDEM after receiving your annual performance report.

**GO!** Please use this annual report form if you are only a member of the Indiana Environmental Stewardship Program and not a member of the National Environmental Performance Track. Your Annual Performance Report should be reviewed and signed by a senior manager at your facility prior to submittal. Once signed, fax, mail, or e-mail the report to IDEM. If you have any questions, please contact the ESP Program Manager at 800-988-7901.

The Indiana Environmental Stewardship Program (ESP) Annual Performance Report should demonstrate progress toward objectives and targets AND certify ESP requirements continue to be achieved. The Annual Performance Report should cover the twelve (12) month calendar year and include the status of projects committed to in your facility's original ESP application, results of completed projects, and assurance that an annual internal environmental management system audit was conducted by your facility. Indiana ESP facilities must submit an Annual Performance Report by April 1<sup>st</sup> of every year, for each calendar year in which the entity has been a member for at least three (3) full months.

Please do not include any confidential business information in your Annual Performance Report. Public access laws require IDEM to make the Annual Performance Report publicly available, which may include posting all portions of your report on the Indiana ESP Web site.

SECTION A		FACILITY INFORMATION	
Name of Facility		DePuy Orthopaedics, Inc.	
Name of Parent Company (If applicable)		Johnson & Johnson	
Street Address (number and street)		700 Orthopaedic Drive	
City/State/ZIP Code		Warsaw, IN 46581-0988	
Facility/Company Web site		<a href="http://www.depuyorthopaedics.com">www.depuyorthopaedics.com</a>	
CONTACT INFORMATION			
Contact Name (Mr./Mrs./Ms./Dr.)		Mr. Steve Schroedl	
Title		Environmental Engineer	
Telephone number		574-372-7434	
FAX number		574-372-7018	
E-mail address		<a href="mailto:sschroe1@its.jnj.com">sschroe1@its.jnj.com</a>	
Mailing Address (if different from facility address)		700 Orthopaedic Drive	
City/State/ZIP Code		Warsaw, IN 46581-0988	
Reporting Period Dates		January 1, 2008 to December 31, 2008	
If this is your third Annual Performance Report, do you wish to renew your Indiana Environmental Stewardship Program membership?			
<input type="checkbox"/> Yes---If yes, please complete all sections of this annual report.			
<input type="checkbox"/> No---If no, you can skip Section D of this annual report.			
CHANGE IN INFORMATION			
In your ESP application and, perhaps, in previous annual performance reports, you described what your facility does or makes. Have there been any changes or additions to your facility's list of products or activities? If so, please list them in the space below.			
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			

**SECTION B**
**ENVIRONMENTAL MANAGEMENT SYSTEM ASSESSMENT**
**Why do we need this information?**

IDEM needs information on the performance and assessment activities of your Environmental Management System (EMS).

**What do you need to do?**

Please summarize your facility's EMS assessments. Attach additional sheets as necessary.

<p>1. Is your facility currently registered to a recognized third-party EMS standard?</p> <p><input checked="" type="checkbox"/> Yes</p> <p>a. If yes, when was an EMS audit or other assessment last conducted by an independent third party at your facility? Please provide the <i>type</i> (e.g., ISO 14001 certification), <i>scope</i>, and <i>month</i> of the last assessment.</p> <p><input type="checkbox"/> No</p> <p>b. If no, when was an internal or corporate EMS audit last conducted at your facility? Please provide the <i>scope</i> and <i>month</i> of the last assessment.</p>	<p>Year: 2008</p> <p>Type: ISO 14001 Recertification Assessment</p> <p>Scope: ISO 14001 Standards</p> <p>Month: May</p> <p>Year:</p> <p>Scope:</p> <p>Month:</p>	
<p>2. When did your facility last conduct an internal or corporate compliance audit? Please provide the <i>scope</i> and <i>month(s)</i> of each audit, and indicate <i>who</i> conducted the audit(s) (e.g., facility staff, corporate groups, third party). Do not include audits, inspections, or site visits by regulatory organizations.</p>	<p>Year: 2008</p> <p>Scope: Environmental management system</p> <p>Month(s): November to December</p> <p>Who: Facility Staff</p>	
<p>3. (Optional) Please describe any other audits that were conducted at your facility.</p>	<p>ISO 13485 Recertification Assessment; Safety Management System</p>	
<p>4. Has your facility corrected all instances of potential non-compliance and EMS non-conformance identified during your audits and other assessments?</p> <p><input type="checkbox"/> Yes</p> <p>a. If yes, briefly summarize corrective actions taken and other improvements made as a result of your EMS assessment(s) or compliance audit(s).</p> <p><input checked="" type="checkbox"/> No</p> <p>b. If no, please explain your plans to correct these instances.</p> <p><input type="checkbox"/> No such instances identified.</p>	<p>The facility annually reviews its environmental management system and develops a management action plan to correct system gaps identified in the review. The corrective actions identified in the management action plan are scheduled throughout the year and as a result, some action items are currently open.</p>	
<p>5. Explain the emergencies experienced within the facility during the past year. Were the applicable emergency and contingency plans detailed in the EMS effective? What changes, if any, have been made to your facility's emergency or contingency plans?</p>	<p>Although safety-related emergencies (e.g., minor injuries) occurred and were managed properly, the site did not experience any environmental-related emergencies.</p>	
<p>6. When was the last Senior Management review of your EMS completed?</p>	<p>Month/Year: April, 2008</p> <p>Who headed the review? Name and Title: Ross Ashby, Worldwide Director of Environment, Health, and Safety</p>	
<p>7. When did your facility last conduct a systematic identification or review of your environmental aspects?</p>	<p>Month/Year: 4/08</p>	
<p>10. (Optional) Please provide a narrative summary of progress made toward EMS objectives and targets <u>other than those reported as an Environmental Performance Initiative in the following section</u>. You may limit the summary to environmental aspects that are <i>significant</i> and towards which <i>progress</i> has been made during the last calendar year. Attach additional sheets as necessary.</p>	<p>Environmental Aspect</p>	<p>Progress Made This Year (e.g., quantitative or qualitative improvements, activities conducted)</p>
	<p>Regulatory Compliance</p>	<p>DePuy operated in 2008 without any accidental releases to the environment or government-issued environmental violations.</p>
	<p>Community Outreach</p>	<p>DePuy assisted with the planning and execution of an environmental education day for local 6<sup>th</sup> graders.</p>
	<p>Community Outreach</p>	<p>DePuy maintained its active role in the Local Emergency Planning Commission through technical spill response support to the local hospital.</p>

**SECTION C****ENVIRONMENTAL IMPROVEMENT INITIATIVE RESULTS****Why do we need this information?**

Facilities need to share the results of the environmental improvement initiative that was pursued during the reporting period.

**What do you need to do?**

Use the following table to summarize your facility's environmental performance as compared to your ESP environmental improvement initiative.

Category: Water Use

Aspect: Total Water Used

Specific Information on Aspect (optional): Total Water Used is measured using water meter readings.

	Baseline	Progress during year 2007	Environmental Improvement Initiative Goal	Cost Savings (if applicable)
Actual Quantity (per year)	47,867,880	35,876,400	40,687,698	\$72000 based on a savings of \$6/1000 gallons (the cost of purchasing the fresh water plus the cost of discharging the water to the sanitary sewer).
Measurement Unit	gallons	gallons	gallons	
Normalized Quantity (per year)	47,867,880			
Basis for your Normalizing Factor (e.g., gallons of paint produced)	Number of units produced	Number of units produced	Number of units produced	

Briefly describe how you achieved improvements for this aspect or, if relevant, any circumstances that delayed progress.

Water discharged from a reverse-osmosis process was collected and routed for use as non-contact cooling water in laser etch machines.

Please list any state, EPA, or other partnership programs to which you are reporting this data (e.g., Energy Star, Project XL).

U.S. EPA Performance Track

(Optional) If your facility has experienced continued results for environmental improvement initiatives pursued in past years of ESP membership, please share those results here.

Warsaw continued to implement the use of reverse-osmosis discharge water for non-contact cooling water and used 35,328,200 gallons of water in 2008.

**SECTION D****ENVIRONMENTAL IMPROVEMENT INITIATIVES****Why do we need this information?**

Facilities need to demonstrate their commitment to improving environmental performance.

**What do you need to do?**

Refer to the Environmental Performance Table.

For ESP membership, you must identify three (3) environmental improvement initiatives for each 3-year membership term. One (1) initiative was identified in the application and the remaining will be identified each year in the annual report. Identify the new initiative that will begin this year by answering the following questions. Choose an indicator from the Environmental Performance Indicator Table to measure the identified environmental initiative. The Environmental Performance Indicator Table is provided with the ESP Application and is also available at <http://www.in.gov/idem/prevention/esp/table.doc>. The indicator you select for your initiative should be related to the objectives and targets in your EMS. Where possible, indicators should also be identified as having a significant environmental impact in your EMS. No more than two of your indicators can be from the same environmental category during the 3-year term. If you are not sure how your objectives and targets fit into the indicators from the Environmental Performance Indicator Table or whether your indicators are significant, call IDEM at 800-988-7901.

Please complete the following questions according to the environmental indicator you selected from the Environmental Performance Indicator Table. Additional information is required for air, hazardous waste, solid waste, and energy indicators as requested in Appendix 1.

1a What category have you selected from the Environmental Performance Table? (If the category is Energy Use, Waste, or Air Emissions for Total GHGs, please turn to Appendix 1 to complete additional questions pertaining to the category you have selected.) Discharges to Water

1b What indicator have you selected from the Environmental Performance Table? Toxics, specifically copper in wastewater.

1c All measurements should represent the performance level for the indicator across the entire facility. For many indicators, you may choose to focus your initiative on a specific subset of the indicator (e.g., a specific material, process, VOC, group of toxic air emissions, or particular waste component). Does your initiative include everything covered by the indicator (e.g., all VOCs, all non-hazardous waste), or a specific process, substance, or component (e.g., ethane, cardboard)?

- ☒ All  
☐ Specific

If your initiative is specific to a substance or component, please provide additional detail on your indicator (e.g., specific chemical to be reduced, specific waste component). Copper found in the facility's wastewater.

1d What activities or process changes do you plan to undertake at your facility to accomplish your initiative (e.g., technology changes in a particular process line, employee training)? Using Six Sigma tools, we identified a main contributor of copper to our wastewater to be copper water-supply pipes that were eroding and elevating the copper levels of our water. This elevated level of copper in our supply water was subsequently discharged with the facility wastewater. The copper supply pipes were replaced with plastic pipes and the copper levels in wastewater have dropped significantly.

2a Does this initiative address a significant aspect in your EMS?

- ☒ Yes  
☐ No

2b If no, please explain why you believe this indicator should be included as an environmental improvement initiative.

**Stop! If the category listed in Question 1a is Energy Use, Waste, or Air Emissions for Total GHGs, please skip Questions 3a – 3b below and turn to Appendix 1 to complete the questions pertaining to the category you listed. After completing Appendix 1, return to question 4 and complete the remaining questions regarding your facility's environmental improvement initiative.**

3a What units are you using to quantify this indicator? pounds

(Please refer to the Environmental Performance Indicator Table for the acceptable units for each indicator.)

3b List the baseline annual quantity of the indicator and the annual quantity you are committing to achieve by the future year.

Baseline quantity	19	Year 2007
Future year quantity (not including production)	16	Year 2008

4 Does the quantity presented in the future quantity column represent an absolute goal or a normalized goal?

- ☐ Normalized goal (i.e., indexed to level of business in baseline year)  
☒ Absolute goal (i.e., demonstrates improvement even if production increases)

5 Whether your goal is absolute or normalized, you will need to provide normalizing factors and normalized quantities in your annual performance reports.

Please briefly describe your basis for normalizing. Examples of potential normalizing basis include: gallons of paint produced, square feet of circuit boards sold, number of patients seen, dollars of sales adjusted for inflation, or number of employees (for R&D and administrative sites only).

Production

6a Are you subject to Federal, State, tribal, or local regulatory requirements for this indicator?

- ☒ Yes  
☐ No

6b If yes, explain how your initiative exceeds regulatory requirements. Permit allows 0.3 ppm copper and we discharge ~0.05 ppm.

## SECTION E

## PUBLIC OUTREACH AND PERFORMANCE REPORTING

**Why do we need this information?**

IDEM needs to know how environmental information was shared with the public.

**What do you need to do?**

Describe how the facility has shared and plans to share environmental information.

Please briefly describe the activities that your facility conducted during this reporting period to interact with the community on environmental issues and to report publicly on its environmental performance. Feel free, but not obligated, to attach supporting materials (e.g., meeting agendas, public announcements).

Please indicate which of the following methods your facility plans to use to make its ESP Annual Performance Report available to the public. Please check as many as appropriate.

☒ Website ([http://www.jnj.com/community/environment/performance/Facility\\_Performance.htm](http://www.jnj.com/community/environment/performance/Facility_Performance.htm))

☐ Open House

☐ Meetings

☐ Press Releases

☐ Community Advisory Panel

☐ Other

## SECTION F

## ADDITIONAL INFORMATION

**Why do we need this information?**

This information will help IDEM to effectively manage the Environmental Stewardship Program.

**What do you need to do?**

Answer the questions as completely as possible.

- In addition to ESP, please list environmental awards received or voluntary programs participated in during the past twelve months (include information about each particular program).  
DePuy received the 2008 Outstanding Paper Award for "Reduce Copper Levels in the Wastewater to Meet Permit Requirements" awarded by the Indiana Water Environment Association (IWEA) and was a charter member in the U.S. EPA National Performance Track program.
- Has your facility taken advantage of any ESP incentives? If so, please describe the implementation process and list additional benefits IDEM should consider.  
No.
- If your facility was not registered to the ISO 14001 standard prior to becoming an ESP member, has ESP helped you to pursue registration? If so, how has ESP been instrumental in achieving registration?  
NA
- Explain the measured or perceived results from receiving, documenting, and responding to external communication.  
DePuy to date has not received any external requests for environmental information.
- How have community residents and businesses reacted to your facility participating in the Indiana Environmental Stewardship Program?  
Numerous private citizens and local government employees have congratulated DePuy on its participation in ESP.
- According to the measurement program developed and implemented by your facility to measure Environmental Management System success, is your facility's EMS successful? Why or why not? If not, what changes will be made to ensure continual environmental improvement and future EMS success?

The DePuy EMS very successful as it sets appropriate environmental goals, drives continuous improvement, and continues to maintain ISO 14001 certification.

#### CERTIFICATION AND PLEDGE

On behalf of DePuy Orthopaedics, Inc. (name of facility),

I certify that the information contained in this Annual Performance Report and attachments is accurate to the best of my knowledge and that this facility is, to the best of my knowledge and based on reasonable inquiry, currently in compliance with all applicable federal, state, and local environmental requirements, or has a corrective action program in place to attain compliance.

We, DePuy Orthopaedics, Inc., commit to maintaining the principles and goals outlined in our Environmental Management System for our facility's Indiana Environmental Stewardship Program status. We agree to strive for full compliance with all regulations promulgated by the U.S. EPA, state, or local jurisdictions. We agree to promote the Indiana Environmental Stewardship Program and to share our success stories with other facilities. We understand that the Annual Performance Report must be submitted to IDEM by April 1<sup>st</sup> of each year and that we must reapply to the Indiana Environmental Stewardship Program every three years.

I understand that the information provided in this Annual Performance Report will be public record. I am the senior facility manager or authorized facility signatory, and fully authorized to execute this statement on behalf of the corporation or other legal entity whose facility is submitting this Annual Performance Report.

Signature  
Ross Ashby

Title  
Worldwide Director, EHS

Date (month, day, year)  
4/1/09

Please mail, fax, or e-mail your completed Environmental Stewardship Program Annual Performance Report to:

IDEM-OPPTA  
ESP Program Manager  
MC 64-00 IGCS W041  
100 North Senate Avenue  
Indianapolis, IN 46204-2251

FAX: 317-233-5627  
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Additional questions for environmental improvement initiatives for the following categories/indicators:

### Energy Use - Non-Transportation

In the table below, please enter the amount of energy that you currently use and that you intend to use in your future reporting year. Break the energy use down by fuel type. Please note that you need only complete those lines that are relevant to your facility. If all of your energy is purchased from a local electricity generator, you may only need to complete the first line. If the facility uses natural gas, please be sure to complete the appropriate line (natural gas is typically combusted on site so it is listed in the "onsite" section).

Please note that this table categorizes sources of energy according to where the energy is generated.

3a Is the goal of your energy use commitment to:

- ☐ Reduce total energy use  
☐ Invest in renewable energy sources  
☐ Combination of both strategies

3b How much energy of each type does your facility use?

		Baseline Year 20_____	Future Year 20_____	Units
Energy Generated Off-Site	Electricity			
	Steam			
	<b>Total Energy Generated Off-Site</b>			
Sources of Energy Generated On-Site	Coal			
	Natural Gas			
	Crude Oil			
	Fuel Oil			
	Diesel			
	Propane / LPG			
	Gasoline			
	Hydrogen Powered Fuel Cells			
	Natural Gas / Methane Powered Fuel Cells			
	Biomass			
	Solar			
	Wind			
	Landfill Gas			
	Geothermal			
	Hydroelectric			
	Tire Derived Fuel			
	Other Fuel or Source Specify: _____			
	<b>Total Energy Generated On-Site</b>			
<b>Total Renewable Energy Use</b>				
<b>Total Non-Renewable Energy Use</b>				
<b>Total Energy Use</b>				
<b>Metric Tons of CO2 Equivalents</b>				
<b>Metric Tons of CO2 Equivalents</b>				
<b>Offset Through Purchases of Electricity from Renewable Off-Site Sources</b>				
<b>Net Metric Tons of CO2 Equivalents</b>				

The DePuy EMS very successful as it sets appropriate environmental goals, drives continuous improvement, and continues to maintain ISO 14001 certification.

#### CERTIFICATION AND PLEDGE

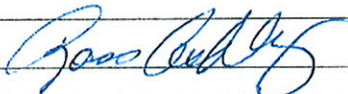
On behalf of DePuy Orthopaedics, Inc. (name of facility),

I certify that the information contained in this Annual Performance Report and attachments is accurate to the best of my knowledge and that this facility is, to the best of my knowledge and based on reasonable inquiry, currently in compliance with all applicable federal, state, and local environmental requirements, or has a corrective action program in place to attain compliance.

We, DePuy Orthopaedics, Inc., commit to maintaining the principles and goals outlined in our Environmental Management System for our facility's Indiana Environmental Stewardship Program status. We agree to strive for full compliance with all regulations promulgated by the U.S. EPA, state, or local jurisdictions. We agree to promote the Indiana Environmental Stewardship Program and to share our success stories with other facilities. We understand that the Annual Performance Report must be submitted to IDEM by April 1<sup>st</sup> of each year and that we must reapply to the Indiana Environmental Stewardship Program every three years.

I understand that the information provided in this Annual Performance Report will be public record. I am the senior facility manager or authorized facility signatory, and fully authorized to execute this statement on behalf of the corporation or other legal entity whose facility is submitting this Annual Performance Report.

Signature  
Ross Ashby



Title  
Worldwide Director, EHS

Date (month, day, year)  
4/1/09

Please mail, fax, or e-mail your completed Environmental Stewardship Program Annual Performance Report to:

IDEM-OPPTA  
ESP Program Manager  
MC 64-00 IGCS W041  
100 North Senate Avenue  
Indianapolis, IN 46204-2251

FAX: 317-233-5627  
E-mail: [esp@idem.IN.gov](mailto:esp@idem.IN.gov)





**Waste - Non-Hazardous Waste Generation**

In the table below, please enter your facility's amount of non-hazardous waste, broken down by waste management method. Please enter both the amounts you manage currently and that you intend to manage in your future reporting year. "Waste" is defined as all materials sent off-site that are neither product nor product packaging.

3a Is the goal of your non-hazardous waste commitment to:

- ☐ Reduce non-hazardous waste  
☐ Improve waste management methods  
☐ Combination of both strategies

3b How much of your waste is handled using each management method?

Method of Waste Managed	Baseline Year 20_____	Future Year 20_____	Units
Landfill			
Incineration			
Reused/recycled off-site			
Other management - Specify: _____			
<b>Total Non-Hazardous Waste</b>			

**Waste - Hazardous Waste Generation**

In the table below, please enter your facility's amount of hazardous waste, broken down by waste management method. Please enter both the amounts that you manage currently and that you intend to manage in your future reporting year. Include all hazardous waste that is treated on-site or sent off-site.

3a Is the goal of your hazardous waste commitment to:

- ☐ Reduce hazardous waste  
☐ Improve waste management methods  
☐ Combination of both strategies

3b How much of your hazardous waste is handled using each management method?

Method of Waste Managed	Baseline Year 20_____	Future Year 20_____	Units
Landfill			
Incineration			
Reused/recycled off-site			
Treated on-site			
Other management Specify: _____			
<b>Total Hazardous Waste</b>			

**Air Emissions – Total GHGs**

3a Is the goal of your Total GHGs commitment to:

- ☐ Reduce energy use  
☐ Reduce process-related emissions  
☐ Combination of both strategies

3b How much greenhouse gas does your facility emit from each source?

Source		Baseline Year 20____	Future Year 20____	Units
Direct Emissions	Stationary Combustion			
	Mobile Sources			
	Refrigeration/AC Equipment Use			
	Process/Fugitive Specify Source: _____			
	Process/Fugitive Specify Source: _____			
	Process/Fugitive Specify Source: _____			
	<b>Total Direct Emissions Process/Fugitive</b>			
Indirect Emissions	Purchased Electricity			
	Purchased Steam			
	Purchased Hot Water			
	<b>Total Indirect Emissions</b>			
Optional Indirect Emissions	Other Specify Source: _____			
	Other Specify Source: _____			
	Other Specify Source: _____			
	<b>Total Optional Indirect Emissions</b>			
Offsets	Offsets Specify Source: _____			
	Offsets Specify Source: _____			
	Offsets Specify Source: _____			
	<b>Total Reductions from Offsets</b>			
	<b>Total Emissions Less Offsets</b>			
Supplemental Information	Total CFC			
	Total HCFC			
	Total Stationary Combustion – Biomass CO2			
	Total Mobile Sources – Biomass CO2			
	Electricity trading transactions- Electricity Purchase for Resale			